

L1 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2000-056255 [05] WPIX
DNC C2000-014969
TI New trans-4-hydroxycinnamate decarboxylase - can be prepared from the
microbial body of Klebsiella oxytoca using trans-4-hydroxycinnamic acid as
the substrate.
DC A41 D16 E14 E17 K08
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CYC 1
PI JP 11187870 A 19990713 (200005)* 12<--
ADT JP 11187870 A JP 1997-366651 19971226
PRAI JP 1997-366651 19971226
AB JP 11187870 A UPAB: 20000203

Trans-4-hydroxycinnamate decarboxylase (4-HCD) which can be prepared from
the microbial body of Klebsiella oxytoca using trans-4-hydroxycinnamic
acid as the substrate is new. Also claimed are: (A) a method for preparing
4-hydroxystyrene having a deuterium atom or its derivative
site-selectively on vinyl position by decarboxylating trans-4-
hydroxycinnamic acid or its derivative in the presence of 4-HCD; and (B) a
deuterated-4-hydroxystyrene of formula (II). D = deuterium; R = H, lower
alkyl, OH or lower alkoxy 1 to 4 of which can be present on the benzene
ring.

ADVANTAGE - The method can prepare a deuterated-4-hydroxystyrene
site-selectively in a high yield.
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